IN THE CLAIMS

1. (previously presented) A combustor and a combustor cap liner assembly, comprising:

a combustor having a combustor casing and a combustion liner within the combustor casing, wherein the combustion liner is closed at a forward end by the combustor liner cap assembly, the combustor including a cellular solid media disposed within the combustor liner cap assembly and/or between the combustion liner cap assembly and an end cover to the combustor and wherein the cellular solid media comprises a metal foam.

2. (original) The combustor and a combustor cap liner assembly of Claim 1, wherein comprising the cellular solid media in the combustion liner cap assembly is disposed about at least one burner tube extending through the combustion liner cap assembly.

3-5. (canceled).

6. (original) The combustor and a combustor cap liner assembly of Claim 1, wherein the cellular solid media comprises a metal alloy and/or superalloy material.

7. (original) The combustor and a combustor cap liner assembly of Claim 6, wherein the metal alloy and or super alloy comprises a metal selected from the group consisting of chrome, aluminum, cobalt, nickel, iron, tungsten, molybdenum, and titanium.

8. (original) The combustor and a combustor cap liner assembly of Claim 1, wherein the cellular solid media has a density less than or equal to about 50 percent relative to a bulk density of the media.

9. (original) The combustor and a combustor cap liner assembly of Claim 1, wherein the cellular solid media has a density of about 3 percent to about 10 percent relative to the density of a bulk nonporous solid with the same chemical composition as that of the cellular solid media.

10. (original) The combustor and a combustor cap liner assembly of Claim 1, wherein the cellular solid media has a pore density greater than about 5 pores per inch.

11. (original) The combustor and a combustor cap liner assembly of Claim 1, wherein the cellular solid media disposed within the combustor liner cap assembly and/or between the combustion liner cap assembly and the end cover comprises multiple discs of the media having different porosities.

12. (original) The combustor and a combustor cap liner assembly of Claim 1, wherein the cellular solid media disposed within the combustor liner cap assembly and/or between the combustion liner cap assembly and the end cover comprises a single disc.

13.-14. (canceled).

15. (previously presented) A combustor and a combustor cap liner assembly comprising:

a combustor having a combustor casing and a combustion liner within the combustor casing, wherein the combustion liner is closed at a forward end by the combustor liner cap assembly, the combustion liner cap assembly comprising a cellular solid media in a space defined by opposing surfaces of a circular plate, a burner tube, and an effusion plate of the combustion liner cap assembly and wherein the cellular solid media comprises a metal foam.

16.-17. (canceled).

18. (original) The combustor and a combustor cap liner assembly of Claim 15, wherein the cellular solid media comprises a metal alloy and/or superalloy material.

19. (original) The combustor and a combustor cap liner assembly of Claim 18, wherein the metal alloy and or super alloy comprises a metal selected from the group consisting of chrome, aluminum, cobalt, nickel, iron, tungsten, molybdenum, and titanium.

20.-24. (canceled).